Synthesis of Some Derivatives of the Alkdiin Carboxylic SCV/79-29-6-40/72 Acids on the Basis of Diacetylene

halides. By this method the condensation of 1,3-chloro-bromo propane with no -butyl diacetylene and diacetylene was carried out which hitherto had not been described in publications. In the latter case a monosubstituted derivative was formed. The diacetylene hydrocarbons obtained are mobile liquids with a characteristic smell, unstable already at room temperature, sensitive to light and more stable in the form of their ether solutions in the cold and in the dark. The n.-butyl- and 1-chloro propyl diacetylenes were accordingly converted into the octa-5,7-diin-8- and chlorohepta-4,6-diin-7-carboxylic acid. In the case of longer standing in methanol in the presence of sulphuric acid the methyl esters of these acids were obtained, which were used for the amide synthesis without being purified. The derivatives of the alkdiin carboxylic acid obtained were biologically investigated. Among them the isopropyl amide and the copper salt of the octa-5,7diin-8-carboxylic acid show a bacteriostatic effect with respect to the acid stable bacteria. Copper salt is efficient even against diphtheria bacilli. There are 7 references, 2 of which are Soviet.

Card 2/3

Synthesis of Some Derivatives of the Alkdiin Carboxylic SOV/79-29-6-40/72 Acids on the Basis of Diacetylene

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze (All-Union Scientific Chemo-Pharmaceutical Research Institute ineni S. Ordzhonikidze)

SUBMITTED: June 2, 1958

Card 3/3

GUSENKOV, P.V.; NATHADZE, A.G.; KORZHENEVSKIY, E.S.; RUDTSOV, M.V.; PERSHIN, G.N.; MAGIDSON, O.Tu.; KRAFT, M.Ya.; YAKOVLEVA, Ye.V.; SMIRENSKIY, S.P. M.D. Riazantsev; obituary. Med.prom. 14 no.2:64 f '60.

(MIRA 13:5)

(RIAZANTSEV, MIKHAIL DMITRIEVICH, 1892-1960)

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826010011-2

KRAFT, M.Ya.; TSYGANOVA, A.M.

Obtaining trimethylhydroquinone. Mod. prcm. 14 no. 10:27-30 0 '60. (MIRA 13:10)

(MYDROGQUINONS)

POPOVA, Ye.G.; KRAFT, M.Ya.; BOGDÁNOVA, N.S.; FERSHIN, G.N.

Quaternary ammonium salt derivatives of alkylaminoalkylamides of 10-undecenoic acid. Med. prom. SSSR 14 no.12:3-9 D '60.

(MIRA 13:12) 1. Vsesquunyy nauchno-issledovatel skiy khimiko-farma sevticheskiy institut imeni S. Ordzhonikidze.
(UNDECONOIC ACID)

POPOVA, Ye.G.; KRAFT, M.Ya.

Derivatives of 10-undecynoic acid. Zhur.ob.khim. 30
no.6:1787-1791 Je '60. (MIRA 13:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze. (Undecynoic acid)

6999b

5.3900 AUTHORS:

Kraft, M. Ya., Borodina, G. M., Strel'teova, I. N., Struchkov, Yu. T. S/020/60/131/05/025/069 B011/B117

TITLE:

Structure of Monomeric Arseno Compounds

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 131, Nr 5, pp 1074-1076 (USSR)

TEXT: It was proved by the authors in their paper that among all determinations of the molecular weight of arsenobenzene given in literature, only the methods by F. F. Blicke and F. Smith (Ref 10) are correct. All results obtained with other methods are distorted by resinification reactions. All arseno compounds hitherto described can be divided into two groups: I) colored, amorphous, noncrystallizing and non-distillable compounds. Some of these are insoluble in any solvent, others are soluble in appropriate solvents only, when they form viscous solutions. They were found to be polymers (see scheme). II) Colorless and easily crystallizing, distillable substances. They have the character of monomers. A cyclic structure was demonstrated for arsenomethane (III). The situation is more complicated with arsenobenzene: its molecular weight is rather different according to the individual researchers and techniques used (399.8, 402, 642 and, finally, according to F. F. Blicke and F. Smith 895 and 915). It was obviously because of this multiplicity that the structural formula R—As—As—R (R = C₆H₅) was adopted. It is, however, improbable that a compound with such a

Card 1/3

6999**6**

Structure of Monomeric Arseno Compounds

S/020/60/131/05/025/069 B011/B117

structure should be colorless. The authors presume that the difference between above-mentioned results could be explained with reference to the instability of the arsenobenzene. Its resinification (polymerization) products are most readily oxidized in air up to C6H5AsO. The latter as well as the resinification products of arsenobenzene are very readily soluble in many solvents, but are difficult to detect whereby unreliable results for the molecular weight of arsenobenzene are obtained. The authors arrived at the conclusion that reliable data on the structure of arsenobenzene can be obtained only when the X-ray structural analysis method is used. The thin, almost colorless (yellowish) crystals of arsenobenzene form thin needles. Axis b is the longer one. The simpler shapes are pinacoids [100] and [001]. From data obtained, the authors came to the conclusion that there are 3 crystallographically non-equivalent As atoms contained in a cell. As is proved by the established projection of the electron density (Fig 1), the arsenobenzene molecule is a cyclic system consisting of As atoms. One phenyl group is bound to each As atom. The cycle is six-membered (IV). Such cyclic molecules occupy the position of centers of symmetry within the crystal. The cycle is not arranged in one plane, but has a chair-shaped configuration and a valence angle As - As - As of 93°. The outer valence angles As - As - C are Card 2/3

6999**b**

Structure of Monomeric Arseno Compounds

S/020/60/131/05/025/069 B011/B117

99 ± 3°. The lengths of the bonds As - As are 2.44 A, and that of the bonds C - As = 1.96 A. Provided that data for arsenobenzene given by Blicke and Smith are correct, then their data on the molecular weights of progressor processing processing are also reliable. Hence, the authors come to the conclusion that there are no arseno compounds with a structure R - As=AS - R at all. They actually are either polymers (I) and (II) or cyclic compounds (III) and (IV). There are 1 figure and 10 references, 3 of which are Soviet.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut im. S. Ordzhonikidze (All-Union Chemicopharmaceutical Scientific Research Institute imeni S. Ordzhonikidze). Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds of the Academy of Sciences, USSR)

PRESENTED: October 12, 1959, by A.N. Nesmeyanov, Academician

SUBMITTED: October 6, 1959

Card 3/3

PERSHIN, G.N.; BOGDANOVA, N.S.; ZNAYEVA, K.I.; KRAFT, M.Ya.

Some regularities in the suppression of influenza virus multiplication by synthetic compounds. Farm.i toks. 24 no.6:690-695 N-D '61.

(MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze.

(INFLUENZA-MICROBIOLOGY)

KRAFT, M.Ya.; BORODINA, G.M.

Reactions of diphenyltin with iodine. Zhur.ob.khim. 32 no.5:1665-1667 My 162. (MIRA 15:5)

l. Vsesoyuznyy nauchno-issledovatel skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze.
(Tin) (Iodine)

KATYSHKINA, V.V.; KRAFT, M.Ya.

New type of cation catalysis. Part 4: Catalytic effect of phosphorus pentachloride in the reaction of phenols with phosphoryl chloride. Zhur.ob.khim. 32 no.9:3096-3098 S 162.

(MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze. (Phosphorus chloride) (Phenols) (Phosphoryl chloride)

KRAFT, M.Ya.; LYUTINA, F.V.

Action of chlorosulfurous acid on alkyl sulfuric acids.

Simple method of preparing diethyl sulfate. Zhur.ob.khim.

32 no.11:3493-3495 N '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovateliskiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze.

(Ethyl sulfate)

PERSHIN, G.N., prof.; KRAFT, M.Ya., prof.; ROZENTUL, M.A., prof.;
POZHARSKAYA, A.M., starshiy nauchnyy sotrudnik;
MILOVANOVA, S.N., starshiy nauchnyy sotrudnik; BORODINA, G.M.,
starshiy nauchnyy sotrudnik; MASLOV, P.Ye., starshiy nauchnyy
sotrudnik; IVANOVSKAYA, Ye.A., mladshiy nauchnyy sotrudnik;
ARONSON, P.Yu., mladshiy nauchnyy sotrudnik; KANCHUKH, Sh.F.;
SHEYER, A.A.; ZALIOPO, M.P.. spetsialist po moyushchim sredstva

Treatment of your hair with selenium sulfide soap. Izobr. i rats. no.12:32-33 163. (MIRA 17:2)

1. Zaveduyushchiy laboratoriyey khimioterapii infektsionnykh zabolevaniy Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta im. Ordzhonikidze (for Pershin).

2. Zaveduyushchiy laboratoriyey metalloorganicheskikh soyedineniy Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta im. Ordzhonikidze (for Kraft).

3. Zaveduyushchiy otdelom TSentral'nogo kozhno-venerologicheskogo instituta (for Rozentul). 4. Zaveduyushchiy laboratoriyey lekarstvennykh form Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta im. Ordzhonikidze (for Pozharskaya). 5. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut im. Ordzhonikidze (for Milovanova, Borodina, Ivanovskaya, Aronson). 6. Tsentral'nyy kozhno-venerologicheskiy institut (for Masl

PROTOPOPOV, I.S.; KRAFT, M.Ya.

Reaction of phenol ethers with phosphorus triphleride.

Part 2: Interaction of dimethyl ether of resordinol with phosphorus trichloride. Zhur. ob. knim. 34 no. 5:1446~1449

My '64. (MPA 17:7)

1. Vsesoyuznyy nauchno-issledovatelick); khimiko-farmatsevti fleskiy institut imeni Ordzhonikidze.

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826010011-2

Surgrammer, V.V.; Gottranol and its production. This, a made and limited and the production. This (MERA 2018)

MAKAROV, N.V.; POPOVA, Ye.G.; KRAFT, M.Ya.; BOGDANOVA, N.S.; POLUKHINA, L.M.; PERSHIN, G.H.

Effect on influenza viruses and synthesis of N-acyl derivatives of uracil. Farm. i toks. 27 no.1:63-68 Ja-F *64.

(MIRA 17:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni Ordzhonikidze.

URETSKAYA, G.Ya.; KRAFT, M.Ya.

Carbonyl derivatives of the fluorene series. Part 2: 1,4-diformyl-fluerenone. Zhur. org. khim. 1 no.6:1074-1078 Je 165. (MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imen! Ordzhonikidze.

ERACT, M.Ta.; USETSKAYA, G.Ya.

yachesis of 2-amino-2,5.dimethylbeazophenone. Zhur. org. khim.
1 ao.42696-599 Ap '65.

1. Vsesoyuznyy nauchno-issledovabeliskiy khimike farmatsevticheskiy institut imeni Ordahonikidze.

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826010011-2

KRAFT, M. Ya., doktor khim. nauk

ACC NR: AP6034263 (N) . SOURCE CODE: UR/0390/66/029/005/0597/0600 AUTHOR: Kraft, M. Ya.; Katyshkina, V. V.; Pershin, G. N.; Bogdanova, ORG: All-Union Scientific Research Chemical and Pharmaceutical Institute im. S. Ordzhonikidze, Moscow (Vsesoyuznyy nauchno-issledovatel skiy khimiko-farmatsevticheskiy institut) TITLE: Cyclic oxocompounds as potential antiviral agents SOURCE: Farmakologiya i toksikologiya, v. 29, no. 5, 1966, 597-600 TOPIC TAGS: cyclic oxocompound, antivirus agent, drug effect, pharmacology, vine, virology, nucleir acid, protein ABSTRACT: The antiviral properties of the compounds in Table 1 were determined. These compounds were tested on influenza RR-8 type A virus in vitro and in ovo in tissue cultures. All possessed antiviral activity in vitro and some inhibited viral growth in chick embryo epithelium. These cyclic oxocompounds are highly reactive and are thought to produce their inhibitory activity by acting on viral protein in such a way that the viruses cannot adhere to the cell membranes of sensitive cells. Related compounds have been effective against keratitis infections when applied locally. Quinone derivatives with comparatively low redox po-UDC: 615.753.5-017.78+616.988-085.753.5

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ACC NR. AP6034263

tentials have been discovered to possess good antiviral properties, thus refuting a theory that antiviral activity and high Eh were connected. The compounds involved in the present study were tested more for their effects on amino groups of nucleic acids and proteins with secondarily for their intracellular interference with the virus and only the object was to find a compound that reacts easily with viral protein the configuration of the molecule of the coumpound is very important and plays a great role in the specificity of the drug. Little antivital activity was displayed by 4-hydroxy-beta-napthoquinone and its pound was 7-hydroxy-beta-napthoquinone. The most effective compounds tested are shown in Table 1. The most effective virus neutreatment of pneumonia in white mice, but were not effective. Orig.

SUB CODE: 06/ SUBM DATE: 20Dec65/ ORIG REF: 002/ OTH REF: 005

Card 3/3

KRAFT Natan, ing.

Utilization of oxygen in obtaining steel in electric furnaces. Metalurgia Rum 15 no.5:372-374 My '63.

KRAFT, Natan, ing.

Standard of steel production in the USSR, and prospects of its further development. Metalurgia constr mas 14 no.2:97-100 F '62

1. Combinatul siderurgic, Galati.

KRAFT, Natan

Utilization of oxygen in the classic roller mills and Martin furnaces. Metalurgia constr mas 14 no.8:757-759 Ag '62.

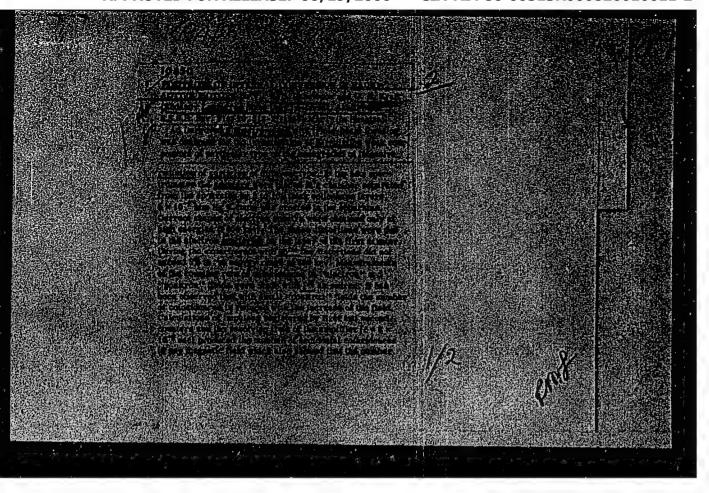
DZHELEPOV, B.S.; KRAFT. O.Ye.

Measuring half-life periods of radioactive isstepes by means of differential chambers. Vest, Len, un. 10 ne. 8:97-111 Ag '55.

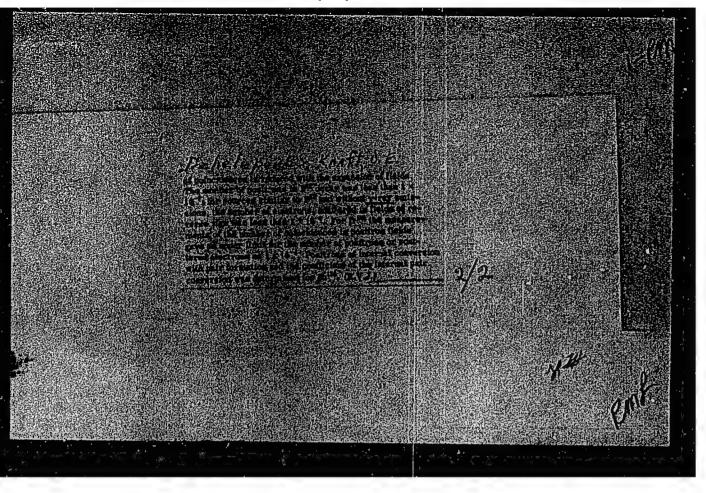
(Radioisetepes)

(MLRA 9:1)

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826010011-2



MRAITTEL.

48-7-10/21

AUTHORS:

Dzhelepov, B.S., Kraft, O.Ye., Zhinkina, V.B.

TITLE:

Positrons in the Radiation of the Radioactive Isotope In 114 (Pozitrony v izluchenii radioaktivnogo izotopa In 114)

PERIODICAL:

Izvestiya Akad. Nauk SSSR, Ser. Fiz., 1957, Vol. 21, Nr 7, pp. 978 - 984 (USSR)

ABSTRACT:

The radioactive isotope In 114 possesses the possibility of a concurrent B-B-decay. It lies between two stable isobars whose charge differs by two units: Cd114 and Sn14. This decay is fully described and reference is made to work done in this field by other authors. The radioactive isotope In 114 possesses two isomers with half-decay periods of 50 days and 72 seconds. The 50 days isomer is converted to its ground state In 114 by emitting either a y-quantum with the energy of 192 keV or a conversion electron. The authors further give a survey of data on the In 114 decay and report on the work done by other authors in this field, where it was for the first time reported on positrons. In order to estimate the intensity and the limiting energy of the positrons the authors used as source an indium foil covered by aluminum as reabsorber. The B-spectrum of

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Positrons in the Radiation of the Radioactive Isotope In 114 48-7-10/21

In 114 was investigated by the authors by means of a magnetic B -spectrometer. On figure 1 the test spectrum of the positrons of In 114 is represented. For measuring the background a slide for screening off the B-particles was inserted. Figure 2 shows the positron spectrum as result. In order to exclude errors the β-spectrum of In 114 was measured (under the same conditions as the positron spectrum), and the resulting B-spectrum is represented on figure 3 Figure 4 records the Fermi diagram for the 3-spectrum of In 114. The dependence of the corrections on the energy is represented on figure 5. In order to estimate how far the corrections were correct, they were plotted on the ordinates of a conversion line (figure 6). Figure 7 shows the Fermi diagram for the positron spectrum of In 114. Figure 8 records the scheme of the In 114 decay. There are 8 figures and 23 references, 5 of which are Slavic.

ASSOCIATION:

Leningrad State University imeni A.A.Zhdanov (Leningradskiy gos. universitet imeni A.A. Zhdanova)

AVAILABLE:

Library of Congress

Card 2/2

KRAFT, C. Ye.

Card 1/3

AUTHORS: Dzhelepov, B. S., Corresponding Member of the AN, USSR, Kraft, O. Ye., Preobrazhenskiy, B. K.

TITLE: A Study of the β^+ - Decay of Ho¹⁶⁰ (Issledovaniye β^+ - raspada v Ho¹⁶⁰).

PERIODICAL: Doklady AN SSSR, 1957, Vol. 116, Nr h, pp. 581-583 (USSR).

ABSTRACT! The authors investigated the holmium fraction, which was separated from a target irradiated by protons with an energy of 660 MeV. The active substance was deposited in a thin layer on a cellophane with a thickness of 17... The authors ascertained from a measurement of the electrone spectrum of holmium the lines corresponding to the transitions 197 ± 5; 287 ± lo; 545 ± 20; 652 ± 20; 730 ± 20; 874 ± 25; 974 + 25 and 1315 + 30 keV. The half life of these lines amounts to 4,5 to 6 hours. The conversion electrons corresponding to the transitions 196; 298; 539; 648; 730; 1876; 967 keV appertain to the isotope Holo, which has a half life of 5,3 hours. For these reasons, the conversion spectrum of the sample is probably due entirely to Holo. According to the measurements of the authors this spectrum consists of a composite curve. The Curie diagram of this spectrum is also given here. This diagram shows clearly four components of the \$6... spectrum.

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The maximum energies and the relative intensities of these components

A Study of the β^+ Decay of Hol60.

20-4-15/51

are given. The half life is equal for all components of the spectrum and amounts to 5,6 \pm 0,7 hours. From an analysis of the results obtained here two problems arise: 1) To which of the holmium isotopes apperations the positive radiation? 2) By what process are these positrons produced? Are they actually a result of the β^{\bullet} — decay or are these positrons corresponding to a pair conversion of the corresponding transitions? From the considerations of the authors the following springs: Because of the fact, that the β^{\bullet} spectrum with a half life of 5,6 hours was observed from a source, which was separated from Er after 45 hours, the assumed Ho is obtained from Er just like Ho 6. (HX denoting an unknown holmium isotope). 2) The fact, that the ratio β^{\bullet} from both sources is equal, speaks in favour of a convintage.

cing similarity not only of the periods of ${\rm Ho}^{160}$ and ${\rm Ho}^{\rm X}$, but also of the periods of ${\rm Er}^{160}$ and ${\rm Er}^{\rm X}$. The fraction of Erbium, which had been kept for lho hours after the separation was used in an additional experiment, which furnished the same results. The greater number of electrons is probably coming from the β^{+} decay of ${\rm Ho}^{160}$. The mass difference between ${\rm Ho}^{160}$ and ${\rm pc}^{160}$

difference between Ho and Dy amounts to a value of not less than 2920 ± loo keV. Further details are given.

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826010011-2

A Study of the β^+ - Decay of Ho 160.

20-4- 15/51

There are 2 figures, 1 table and 7 references, 4 of which are Slavic.

ASSOCIATION: State University imeni M. V. Lomonosov, Leningrad (Leningradskiy gosudarstvennyy universitet imeni M. V. Lomonosova).

SUBMITTED: July 22, 1957.

AVAILABLE: Library of Congress.

Card 3/3

spectra of radio ctive isotopes Julih, Ho, Dy and positrons of the cairs of inner convertion in the radioactive isotope Sb^{12h} when the mix of a S. spectrometer with 3-multiple focusing of the beam." Len, 1958, 5 pp (Len Order of Lenin State Univ im A.A. Zhdanov) 200 codies (KL, 27-58, 102)

- 111 -

0. 4. KRAFI

> Grigor'yev, Ye. P., Dzhelepov, B. S., AUTHORS:

Zolotavin, A. V., Kraft. O. Ye., Kratsik, B. Peker, L. K.

The Decay of Tb 160 and H 160 and the Level Scheme of Dy 160 (Raspad Tb 160 i Ho 160 i skhema urovney Dy 160) TITLE

Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya. 1958 PERIODICAL:

Vol. 22, Nr 2, pp. 101-125 (USSR)

Radioactive Tb 160 was here obtained by irradiation with ABSTRACT:

slow neutrons of chemically pure (99 99%) Tbo0x. The position and relative intensity of 19 lines was carefully measured in the conversion spectrum. The decomposition of the known line 963 + 966 keV into two components is essentially new. The relative intensities of the X

-transitions were obtained by means of a division of the line areas through the corresponding photoelectric

absorption factor. The values were because of the absorption of the Y=rays corrected in the source itself and at the walls of the cylinder, as well as because of the absorption of the photoelectrons in the target and in

Card 1/3 the slits of the counter. The obtained relative intensities

The Decay of Tb 160 and H 160 and the Level Scheme of Dy 160 48-22-2 2/17

the range of ±20% in agreement with those of references 5 and 6. The measurements of the conversion spectrum show that the soft component is twice as weak as the hard one, The multiplicity of these transitions apparently is equal and between the intensities of the Y-lines the same relation must exist. - Radioactive Ho 160 was obtained by irradiation of a tantalum target with protons with an energy of up to 660 MeV. The erbium and holmium fractions were chromato graphically separated from the target. In the conversion spectrum all conversion lines of Ho¹⁶⁰ that had been obtained in reference 8 were also confirmed here and many new ones discovered. It is shown that the transitions to the upper levels are permitted ones. The small number of positrons (one positron) per decay is explained by the fact that at the low decay-energy the K-capture is dominating. When the decay to two upper levels is considered permitted K/β^{+} can be determined according to the tables by Zweifel (ref. 10). The values 5400 and 400 thus obtained are very high, consequently a considerable part of all conversions of Ho 160 must take place by way of K-capture. In the

of the Y-lines in the spectrum of photoelectrous are in

Card 2/3

The Decay of Tb 160 and H 160 and the Level Scheme of Dy 160 48-22-2-2/17

second short chapter the determination of the multiplicity of transitions is shown and its results are given in the form of a table. - In the third chapter the scheme of the Dy -levels is treated. A level scheme of Dy was here compiled with the use of all experimental data, theoretical considerations and the analogy with the neighboring nuclei. This scheme in the best manner corresponds to all data. All arguments confirming this scheme are given here and all facts contradicting this scheme or facts which cannot be explained are enumerated. There are 8 figures, 12 tables, and 19 references, 8 of which are Soviet.

ASJOCIATION:

Fizicheskiy institut Leningradskogo gosuderstvennogo universiteta im. A. A. Zhdanova (Institute for Physics in the Leningrad State University imeni A. A. Zhdanov)

AVAILABLE:

Library of Congress

Card 3/3

1. Terbium-Decay

2. Terbium isotopes (Radioactive)

KRAFT, C. St.

AUTHORS:

Dzholopov, B. S., Kraft, O. Ye.,

48-22-2-14/17

Preobrazhenskiy, B. K., Yushkevich, G. F.

TITLE:

Positron Spectra of the Dysprosium Fraction (Spektry pozitro-

nov disproziyevoy fraktsii)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, 1958

Vol. 22, Nr 2, pp. 208-210 (USSR)

ABSTRACT:

The mentioned dysprosium fraction was here obtained by separation from the tantalum target, which was irradiated by protons with an energy of 660 MeV. In this connection it is stated, that no data can be found in publications on the dysprosium isotope with a half life of 20 hours. Dy 157 was ascribed to the eighth period (reference 2). From reference 3 it can be seen, that another Dy 155 exists with a half life of 10 hours. In order to determine which isotopes are contained in the here obtained preparation, its conversion spectrum was investigated, which resulted in the determination of 11 peaks of conversion electrons. 6 of these possessed the same half life of 11 \pm 2 hours. The energy of the electrons amounted to 180 \pm 10, 270 \pm 15, 320 \pm 20, 400 \pm 25, 465 \pm 30 and 610 \pm 30

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keV. It was assumed, that these are K-electrons, possessing

Positron Spectra of the Dysprosium Fraction

48-22-2-14/17

the transition energies 230, 320, 370, 450, 515, and 660 keV. Such transitions "apparently" correspond to Dy 155 ar Dy 157. The ratio of the number of positrons and of the number of conversion electron transitions with hy = 515 keV was established to be 37.5. A half life of 4,7 days and energies of 98, 112, 132 and 162 keV here corresponded to the four groups of conversion electrons. A comparison with the conversion spectrum of the dysprosium fraction as given in reference 3 permits to assume, that in this case it is concerned with the lines k-148, K-162, K-182 and K-210, which occur in the decay of Tb155 (the first three of them), which also pertains to the decay of Dy155 and Dy157. Concerning the 20 hours decay period which was found in this investigation in the dysprosium fraction, it is stated here, that its origin remained unclear. Concerning this it is remarked, that in the measurements of the terbium fraction on a ketron (reference 4) positrons from a decay with a half life of 18 hours and a limit energy of ~2800 keV were observed, which is near to the found half life of ~20 hours. For this reason it is assumed, that the respective positron spectrum refers to the isotope Tb with a half life of 18 hours. There are 4 figures and 4 references, 3 of which are Soviet.

Card 2/3

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Positron Spectra of the Dysprosium Fraction

48-22-2-14/17

ASSOCIATION:

Fizicheskiy institut Leningradshogo gos. universiteta im.

A. A. Zhdanova (Physics Institute, Leningrad University imeni

A. A. Zhdanov)

AVAILABLE:

Library of Congress

1. Dysprosium fraction-Positron spectra 2. Proton irradiation-Application

Card 3/3

21.0) Thermitent Confures on the beseful Base of Atomic Marry, 24., Gasow, 1995 Mildy sowteith wherethy referred fixin (broats of Sories Scientists) Mildy sowteith wherethy independs fixin (broats of Sories Scientists) Mildy sowteith where, Atomicais, 1999, 55 p. (Sories Scientists)	Acceptant and EL. of this I and inclusional and " remark workers makin 43 papers are in fees of	OPTIMENT IN to divided from two parts. But I contains If papers dealing with places and emercalised theremands. Therefore, and first I contains the papers on selection that the papers of the papers	man indication instances, the color of processing the color of the col	Emports of Series Sedentificial Series (Cont.) SEV/SCO. Percent S.T., and A.D. Condent. Conde Bay Sending to the SERIE by Means of Section Series (Cont.) S	E. Green, S. A. Bothlor, S. E. Gereditakly, B. P. Green, Pr. J. Berlin, J. B. Green, P. J. Green, B. G. Green, J. J.
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S/048/60/024/03/05/019 B006/B014

24.6720

Bonch-Osmolovskaya, N. A., Dzhelepov, B. S., Kraft, O. Ye.

TITLE:

AUTHORS:

Study of Positron Spectra of Neutron-deficient Isotopes

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,

Vol. 24, No. 3, pp. 283-287

TEXT: The article under review was read at the Tenth All-Union Conference on Nuclear Spectroscopy (Moscow, January 19 - 27, 1960). The authors studied the positron spectra of some neutron-deficient isotopes obtained by bombarding a tantalum target with 680-Mev protons. The authors used a β -spectrometer with triple beam focusing. Results are given according to elements. Lutetium: The hardest component recorded had an energy limit of about 2,800 kev. All spectral regions with an energy exceeding 1,500 kev corresponded to one and the same half-life of 85±18 min (Fig. 1). Thus, it may be seen from the Curie curve shown in Fig. 2 that the energy limit of the β -spectrum was 2,800±200 kev, corresponding to a half-life of 56±12 min. The above component can, therefore, be ascribed to Lu¹⁶⁷

Card 1/3

Study of Positron Spectra of Neutrondeficient Isotopes S/048/60/024/03/05/019 B006/B014

(55 min). The Curie curve of this isotope is shown in Fig. 3. The problem of the β^+ -spectrum with the energy limit of 2,800 kev and T = 85 min has not yet been solved. Such an isotope is unknown. Two explanations are possible: 1) Such an Lu isotope as, e.g., Lu168 actually exists. In this case also a y-radiation would have to exist for this half-life, which has not yet been observed. 2) It is the radiation of the 75-minute Yb isotope (β^+ -energy limit 2.95 MeV); the presence of such an impurity is not impossible. Thulium: The authors recorded a β^+ -spectrum with an energy limit of 2.1 Mev (7.3 hours - Tu¹⁶⁶) and one with 137 min (Tu¹⁶³). As shown in Fig. 4, the spectrum consists of two components with the energy limits 1,050±80 and 400±50 kev with an intensity ratio of 1: 0.7. The Tu163 - Er163 mass difference was # 2,070 kev. Other authors found 2.1 and 2.24 Mev. Erbium: Intense positron emission with an energy limit of 1,300 kev (~2.5 hours) was found, further one with 115115 min. This spectrum also consisted of two components with the energy limits $1,900\pm100$ and $2,980\pm100$ kev, and an intensity ratio of 5: 1. Also the electron-conversion line with 900 kev (2 hours), which was observed for the first time by I. A. Dneprovskiy, was detected. Dysprosium: The

Card 2/3

Study of Positron Spectra of Neutron-deficient Isotopes

S/048/60/024/03/05/019 B006/B014

dysprosium spectrum also consisted of two components with the energy limits 2,700±100 and 1,650±100 kev, and an intensity ratio of 3: 1. Two possibilities concerning the origin of these components are discussed. There are some facts which contradict the existence of a decay series Dy¹⁵⁴ 3hs, Tb¹⁵⁴ 18hs, Gd¹⁵⁴, but speak in favor of Dy¹⁵² 3hs, Tb¹⁵² 18hs, Gd¹⁵³, but speak in favor of Dy¹⁵² 3hs, Tb¹⁵² 18hs, Gd¹⁵⁴, but speak in favor of Dy¹⁵⁵ 3hs, Tb¹⁵² 18hs, Gd¹⁵². Besides, the authors also detected a β⁺-spectrum with an energy limit of about 900 kev (10 hs - presumably Dy¹⁵⁵). A. S. Basina is mentioned. Finally, the authors thank I. A. Yutlandov and V. M. Khalkin for carrying out the chemical work, as well as K. Ya. Gromov and L. K. Peker for their discussions. There are 5 figures and 17 references, θ of which are Soviet.

W

Card 3/3

BONCH-OSMOLOVSKAYA, N.A.; DZHELEPOV, B.S.; KEAFT, O.Ye.;
CHZHOU YUYZ-VA [Chou Yüeh-wa]

Positron spectra of the neutron-deficient isotopes of terbium and neodymium. Izv. AN SSSR. Ser. fiz. 25 no.7:826-831 J1 '61.

(NIRA 14:7)

(Terbium--Spectra) (Neodymium--Spectra)

(Positrons)

40091 5/048/62/026/008/001/028 B141/B108

26.2541

AUTHORS:

Bonch-Osmolovskaya, N. A., Gromov, K., Ya., Dzhelepov, B. S., Kraft, O. Ye., Malysheva, T. V., Nikityuk, L. N., Khotin,

B. A., Chou Yüch-wa, and Chumin, V. G.

TITLE:

The predicted isomer Ir 186 Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,

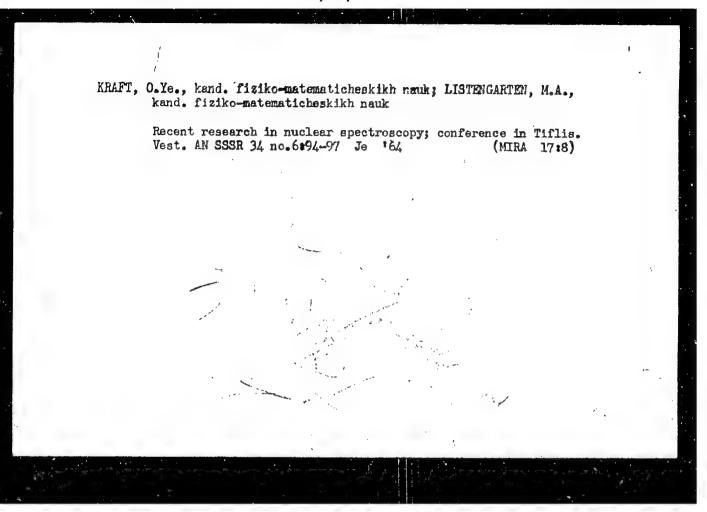
PERIODICAL:

TEXT: Positrons with an intensity decrease of T1/2~2 hrs were discovered in a spectrometric investigation of an iridium fraction obtained from a gold target irradiated by 660-Mev protons. The positron spectrum gold target irradiated by boo-Mev protons. The positron spectrum consisted of five components (end-point energies 3400, 2600, 1930, 1300, 2800 key; relative intensities 1, 20, 44, 12, 22). The conversion electron spectrum of the same Ir fraction had two lines (M 137, N 137). The I(t) of these lines curve could not be attributed to a single halflife. M 137 consists of two components; one with T_{1/2} = 15 ± 1 hrs and one with 1.7 ± 0.2 (Ir 186) which is, within the limits of error, equal to the Card 1/2

Card =/2

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R0008260



APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826010011-2"

DZHELEPOV, B.S.; KAUFMAN, V.Z.; KRAFT, O.Ye.; NAUMOV, Yu.V.

**Property of the control of the co

L 13834-66 ENT(m)/ENP(1) DIAAP WM/RM

ACC NR: AP6002677

90th CE CODE: UR/0048/65/029/012/2141/2146

AUTHOR: Kraft, O.Ye.; Naumov, Yu. V.

ORG: none

TITLE: A beta-gamma coincidence scintillation spectrometer with a low gamma-gamma coincidence background/Transactions of the Fifteenth Annual Conference on Muclear Spectroscopy and Muclear Structure held at Minsk 25 January to 2 February 1965/

SOURCE: AN SSSR, Investige, Seriya fizichenkaya, v. 29, no. 12, 1965, 2141-2146

TOPIC TAGS: beta decay, beta spectroscopy, games spectroscopy, games background, scintillation spectrosecter,

ABSTRACT: A beta-gamma coincidence scintillation spectrometer is described in which special means are employed to reduce the gamma-gamma coincidence background. Such means are particularly desirable when investigating complex decay schemes where there are many gamma cascades. In this spectrometer the gamma rays are detected with an NaI crystal and the beta particles with an anthracene crystal or a plastic scintillator Between the source and the beta detector is mounted a thin (-0.3 mm) film of plastic scintillating material in a highly reflecting housing of ~1 \mu aluminum foil. The photomultipliers associated with the beta detector and the film scintillator are connected to a coincidence circuit, and only coincidences are recorded as beta particles. Gamma rays that enter the beta detector cannot produce a flash in the thin film scintillator and thus are not recorded. The energy lost by a beta particle traversing Card 1/2

L 13834-66

ACC NR: AP6002677

the film scintillator and its housing was found to be 80-100 keV; this energy loss makes the instrument unsuitable for investigation of soft beta spectra. The behavior of the instrument is discussed in some detail, and it is concluded that in cases favorable to its use the gamma-gamma coincidence background can be reduced by a factor of 10 to 20 without serious reduction in the true beta-gamma coincidence counting rate. The instrument was employed to record the spectrum of gamma rays in coincidence with positrons of the 1500 keV end-point component of the beta spectrum of Eu146. The source was the gadolinium fraction separated chromatographically from a tuntalum target bombarded with 600 MeV protons and aged for two or three months. After aging the material consisted almost entirely of Gd 146 and the Eu 146 in equilibrium with it. In the gamma ray spectrum there were found two approximately equal peaks corresponding to gamma-ray energies of 635 and 745 keV. It is concluded that the 1500 keV end-point beta decay goes to the 1380 keV level in Sm¹⁴⁶. In these measurements the gamma-gamma coincidence background did not exceed 10% of the true beta-gamma coincidence counting rate. When the film scintillator was removed the gamma-gamma coincidence counting rate was approximately equal to the true beta-gamma coincidence rate. It is concluded that the use of the film scintillator in coincidence with the beta detector reduced the gamma-gamma coincidence background by a factor between 10 and 20. Orig. art. has: 7 formulas and 6 figures.

SUB CODE: / \$

SUBM DATE: Tronc

ORIG. REF: 001

OTH REF: 001

OC.

Cord 2/2

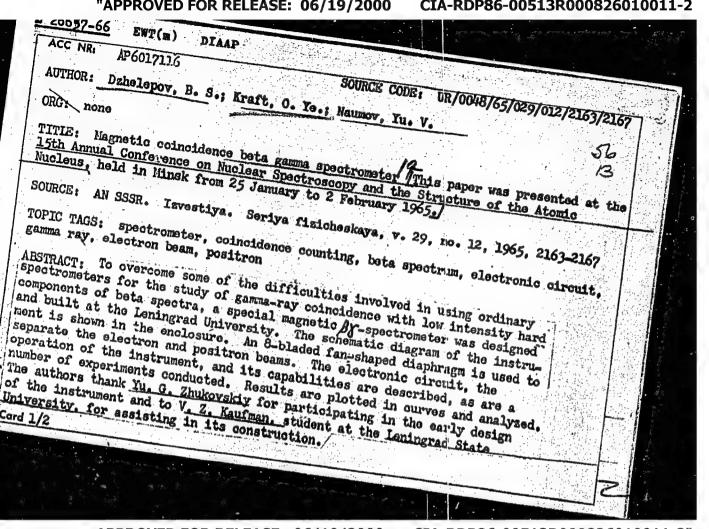
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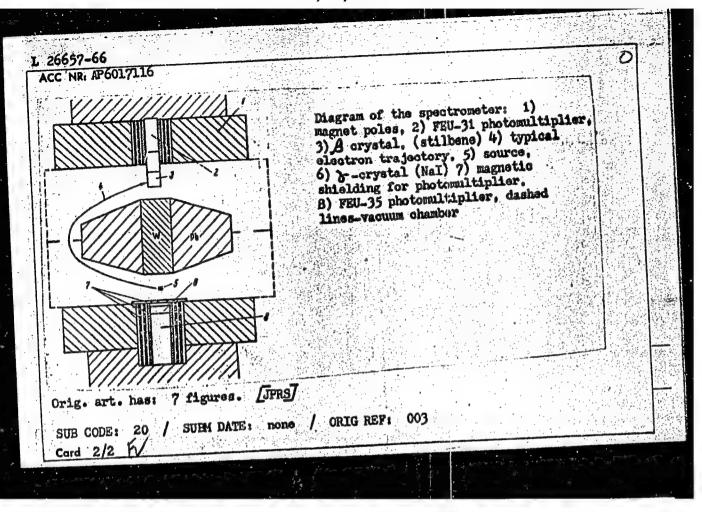
DZHELEPOV, B.S.; KRAFT, O.Yg.; NAUMOV, Yu.V.

Magnetic A-spectrometer of coincidences. Izv. AN SSGR. Ser.
fiz. 29 no.12:2163-2167 D '65.

(MIRA 19:1)

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I. 25743\66 EdT(m) DIAAP JD/JG ACC NR: \AP6016389 8	OURCE CODE: UR/0048/65/029/007/10	79/1082
AUTHOR: Dzhelepov, B. S.; Kaufman, V. Z.; Maufman, V. Z.; Mauf	raft, O. Ye.; Naumov, Yu. V.	63 h
TITLE: Measurement of beta sup plus gamms Tu166 Fr Er166 SOURCE: AN SSSR. Izvéstiya. Seriya fiziche TOPIC TAGS: radioactive decay, spectrometer tantalum, proton, beta spectrum, thulium, en	skaya, v. 29, no.7, 1965, 1079-108	2 bium,
	ion of an experiment in which re the coincidences of post- T-spectrum of Tulos with y- Thio contained in an ytter- ed from a tantalum target analysis of the results is and coincidences at various igor'yev and V. M. Mikhaylov for l. V. Kudryaytseva, and G. A. Miron	
SUB CODE: 20 / SUBM DATE: none / ORIG	REF: 003 / OTH REF: 001	
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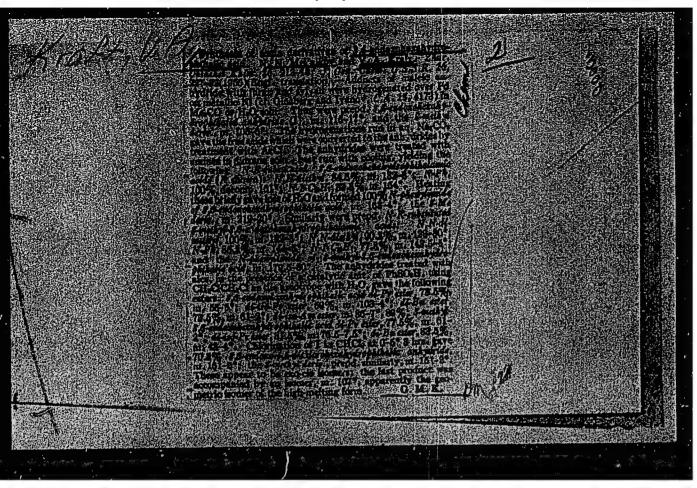
UR/0048/66/030/003/0554/0559 EWT (m) 'I 31403-66 SOURCE CODE: ACC NRI AP6022577 AUTHOR: Dzhelepov, B. S.; Zaytseva, N. G.; Kraft, O. Ye.; Naumov, Sigalov, V. N. TITLE: Spin of the 71 ha sup 170 sub 99 This paper was presented at the 16th Annual Conference on Marker Spectroscopy and Nuclear Structure held in Moscow 26 Jan-3 Feb SCURCE: AN SCER. Laventiya. Seriya fizicheskaya, v. 30, no. 3, 1966, 554-559 TOPIC TAGS: nuclear physics conference, nuclear spin, lutetium, beta decay, proton bombardment
ABSTRACT: The beta gamma coincidence method is used to determine the spin of Lu170 which has a beta decay to the lower rotational band of Yb. 170 The Lu170 sample was obtained from Hf170, with the usual bombardment of a tantalum target with 660 mev protons. The coincidences, of ~ 1660 kev positrons and gamma radiation was studied in the range of 10 to~250 kev. Coincidences were not observed at energies of 193 and 84 kev, nor were betat transitions from the Lul70 ground state to the 2th and 4th levels of Yb It is shown that the ground state spin of Lu170 is zero - a conclusion that is supported by theoretical arguments. Finally, the purity of the isotopic spin in the ground state of Lu170 is determined. The coefficient of impurity isospin (5 X 10-3) determined theoretically is 20 times greater than the experimental value, which fact needs theoretical explanation. The authors thank L. A. Sliv, and Yu. I. Kharitonov for valuable discussions. Orig. art. has: 2 Thoras and 7 formulas. Orig. Cord 1/10 SUB CODE: 20/CHBH DATE: none/ORIG REF: CO9/OTH REF: 008

L 09234-67 EWT(m)/EWP(t)/ETI IJP(c) JD/JG
ACC NRI AP7002795 SOURCE CODE: UR/0048/66/030/008/1286/1291
AUTHOR: Dzholopov, B. S.; Kraft, O. Ye.; Naumov, Yu. V.
ORG: none
TITLE: Beta + gamma coincidences during the decay of Tb sup 152 yields Gd sup 152
SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 8, 1966, 1286-1291
TOPIC TAGS: gamma spectrometer, gamma radiation, position
ABSTRACT: These coincidences were measured with the object of procuring more information on the spin of the To ¹⁵² nucleus, which has not previously been experimentally determined. A magnetic Af-coincidence spectrometer was used: the magnetic spectrometer isolated positrons within a specified energy range and the y-spectrometer recorded the f-radiation coinciding with those positrons. The measurements pertained to the spectrum of f-rays coinciding with positrons of the following energies: ~2500,~2000,~1500, and~1200 kev. Findings: With decrease in positron energies, coincidences with f272 quanta are observed. The fundamental state of To ¹⁵⁵ cannot have the characteristic [7] 3t. The most probable values of the spin and parity of the fundamental state of To ¹⁵² must be regarded as 1. "In conclusion, the authors wish to express their deep appreciation to L. V. Moskvin and Yu. V. Norseyev for isolating terbium from dysprosium, and they thank Zh. T. Zhelev and K. Ya. Gromov for cooperation in procuring the sources." Orig. art. has: 4 figures and 1 table. [JPRS: 39,040] Card 1/100[SUB CDE: 20 / SUBM DATE: none / ORIG REF: 010 / OTH REF: 004
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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826010011-2

Manage approvation and various and very series of the contract ru/0001/GJ/015/010/0630/063L ACCESSION FIRE APPORTS OF AUTHOR: KINCLEY CITEDORIUS III TITLE bone aspents of cost prine and valuation the onemical enterprises BOURDER BAYLEY GA-CHINDA W. 15 NO 207 1960 510-611 TOPIC TAGS: Obemical limitator accommics con estimate ABSTRACT: A study of cost analysis to the chemical industry, disquesting the structure of cost price indices and makes of reducing costs. The authors cyncline that a unified system of complar costs reflectificators would be most useful to suimilate plants producing similar types of goods comercia somewing the lowest possible one; Orig. art. has: 36 formulas; 2 (ables, 1 figure: ASSOCIATION: none SUNTERNIE DE ENGLIE CO SUB CODE: UC. OO NR REP SOVE COO OTHER CO. JAS Card 1/1

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826010011-2



5 (3) AUTHORS:

Mel'nikov, N. N., Kraft, V. A.

507/79-29-3-46/61

TITLE:

On Some Derivatives of 4,5-Dichloro-3,6-endoxohexahydro Phthalic Acid (O nekotorykh proizvodnykh 4,5-dikhlor-3,6-endoksogeksa-gidroftalevoy kisloty)

gidroftalevoy Klsi

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 3, pp 968-971 (USSR)

ABSTRACT:

The synthesis of the anhydrides of 4,5-dichloro-3,6-endoxo-hexahydro phthalic- and 3-methyl-4,5-dichloro-3,6-endoxohexahydro phthalic acid, which the authors carried out by chlorination of the anhydride of 3,6-endoxo- and 3-methyl-3,6-endoxo-1,2,3,6-tetrahydro phthalic acid, had to be investigated by them more thoroughly, all the more as there is no mention in publications concerning the properties of 4,5-dichloro-3,6-endoxohexahydro phthalic acids and their derivatives, except the corresponding dibromo derivatives (Refs 2-9,10). In the work under review the authors investigated the synthesis of various derivatives of 4,5-dichloro-3,6-endoxohexahydro phthalic acid more closely. By the esterification of 3-methyl-4,5-dichloro-3,6-endoxohexahydro phthalic acid and of 4,5-dichloro-3,6-endoxohexahydro phthalic acid with various alcohols in the presence of benzene sulfo acid, the esters,

Card 1/3

On Some Derivatives of 4,5-Dichloro-3,6-endoxchexa-hydro Phthalic Acid

504/79-29-3-46/61

hitherto unknown, of these acids were synthesized and the corresponding amino acids (I) and (II) (Table) were synthesized by the reaction of anhydrides with amines. Two isomers were separated for the 3-methyl-4,5-dichloro-3,6-endoxohexahydro phthalic acid. Esters and amides were obtained from both isomers.

There are 1 table and 11 references, 2 of which are Soviet.

Card 2/3

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826010011-2

On Some Derivatives of 4,5-Dichloro-3,6-endoxohexahydro Phthalic Acid

SOV/79-29-3-46/61

ASSOCIATION:

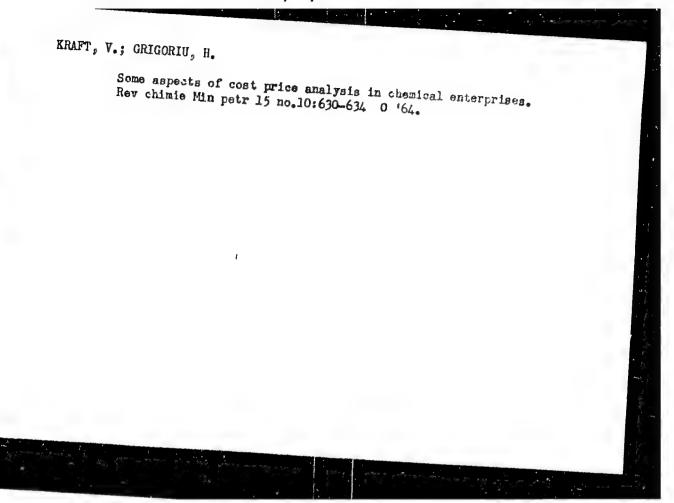
Institut fiziologii rasteniy Akademii nauk SSSR (Institute of Plant Physiology of the Academy of Sciences, USSR)

SUBMITTED:

February 18, 1958

Card 3/3

EWT(1)/EWA(1)/EWT(m)/EWA(b)-2 RG/GS/RM ACC NR: AT5026041 SOURCE CODE: UR/0000/65/000/000/0255/0257 AUTHOR: Kraft, V. A.; Mel'nikov, N. N. W. ORG: Institute of Plant Physiology imeni K. A. Timiryazev, Academy of Sciences SSSR #4.55 (Institut fiziologii, rasteniy, Akademii nauk SSSR) TITLE: Herbicides and plant growth regulators. Part 40: Synthesis of certain esters of 3,6-endoxohexahydrophthalic and 4,5-dichloro-3,6-endoxohexahydrophthalic acid SOURCE: AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimii. Biologicheski aktivnyye soyedineniya (Biologically active compounds). Moscow, Izd-vo Nauka, 1965, 255-257 TOPIC TAGS: phthalic acid, phthalic anhydride, ethanol ABSTRACT: Acid esters of 3,6-endoxohexahydrophthalic acid and 4,5-dichloro-3,6-endoxohexahydrophthalic acid and complete esters of 3,6-endoxohexahydrophthalic acid were prepared. The acid esters were obtained by heating on a water bath a mixture of equimolar amounts of the acid anhydride and an aryloxy ethanol: 2,4-dichlorophenoxyethanol was reacted with 3, 6-endoxohexahydrophthalic anhydride; 2, 4-dichlorophenoxyethanol and 2, 4, 5trichlorophenoxyethanol were reacted with 4,5-dichloro-3,6-endoxohexahydrophthalic anhydride. All the compounds thus synthesized had not been previously reported in the literature. Their formulas, yields, melting points, and molecular weights are tabulated. SUB CODE: OC, GC, CB / SUBM DATE: 02Dec63 / ORIG REF: 004 09011373



APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826010011-2"

"The Barrier-trap Method of Determining the Moves of Water Voles."

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

Akmolinsk Oblast' San.-Epid. Station

REAFT, V.A. Reflect of hydrometeorological factors on the incidence of malaria in Akmolinsk Province. Med.paraz. i paraz.bolezn. 23 no.1:75-79 1. Iz Akmolinskoy oblastnoy sanitarno-epidemilogicheskoy stantsii (glavny vrach V.F. Kovalev). (MALARIA, epidemiol. in Russia, climate factors (Rus)) (GLIMATE, eff. on Malaria morbidity in Russia (Rus))

Changes in water rat populations due to the mowing of macrohydrophilic vegetation. Zool.zhur. 39 no.1:136-141 Ja '60. (MIRA 13:5)

1. Akmolinsk Regional Sanitary Mpidemiological Station.
(Field mice) (Rodent control)

Barrier-trap method of recording migrations of water voles. Zool. zhur. 39 no.5:789-791 My '60. (MIRA 13:10)

1. Akmolinsk Regional Sanitary-Epidemiological Station.
(Kazakhstan--Field mice) (Wildlife census)
(Animal migration)

Migrations of water voles Arvicola terrestris L. and their role in the formation of epizooties of Tualremia. Zool. zhur. 40 no.12:1883-1891 D '61. (MIRA 15:3)

 Sanitary Epidemiological Station of Tselinograd Territory. (Tularemia) (Field mice)

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826010011-2

KRAFT, V.A.

Epidemiology of tularemia in the former Akmolinsk Province. Zhur. mikrobiol., epid.i immun. 33 no.4:53-57 Ap '62. (MIRA 15:10)

1. Iz Krayevoy sanitarno-epidemiologicheskoy stantsii TSelinnogo kraya.

(AKMOLINSK PROVINCE-TULAREMIA)

Determination of the individual activity of Ixodes persulcatus Sch. ticks by marking. Med. paraz. i paraz. bol. 32 no.6: 736-738 N-D '63 (MIRA 18:1)

1. Iz Akmolinskoy sanitarno-epidemiologicheskoy stantsii (glavnyy vrach V.F. Kovalev).

Effect of hydroclimatic factors on the development of tularemia epizootics and epidemics in TSelinograd Province. Zhur. mikrobiol. epid. i immun. 40 no.5:41-48 My '63. (MIRA 17:6)

1. Iz TSelinogradskoy oblastnoy sanitarne-epidemiologicheskoy stantsii.

KRAFT, V.A.

Reproduction of wa voles (Arvicola terrestris Fall.) and factors regulating their abundance in the floodplain of the Ishim River. Zool. zhur. 44 nc.13117-122 165. (MIRA 18:4)

1. TSelinogradskaya oblastnaya sanitarno-epidemiologicheskaya stantsiya.

ACC NR: AP6025809

(A.N)

SOURCE CODE: UR/0326/66/013/004/0595/0601

AUTHOR: Kraft, V. A.; Doman, N. G.; Vasileva, Z. A.

ORG: Institute of Plant Physiology im. K. A. Timiryazev, Academy of Sciences, SSSR, Moscow (Institut fiziologii rasteniy Akademii nauk SSSR); Institute of Biochemistry im. A. N. Bakh, Academy of Sciences, SSSR, Moscow (Institut biokhimii)

TITLE: Effect of defoliants on some products of photosynthetic assimilation of carbon dioxide

SOURCE: Fiziologiya rasteniy, v. 13, no. 4, 1966, 595-601

TOPIC TAGS: defoliant, defoliant effect, photosynthesis, plant physiology defoliant agent, plant morphology, plant sensibility

ABSTRACT:

The radioactive tracer method was used in studying the fixation of CO₂ in plant tissue treated with defoliants. Fig. 1 shows the effects of defoliants on the intensity of C¹⁴O₂ fixation by cotton and bean leaves. Treatment with Butiphos and BEXT caused decreased photosynthetic fixation of labeled CO₂ in bean and cotton plants. The amino acid fraction increased in cotton plants, while labeled alanine and aspartic acid increased in both species. Both defoliants increase the amount of organic and phosphoric acids. CO₂ fixed in polysaccharides is decreased while pretreatment of the plants by

Card 1/2

UDC: 581.132+632.934+633.51+635.652

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826010011-2"

	keeping half in darkness and half in light for several hours before applying defoliant had no effect on the final composition of photosynthetic products in the leaves of both groups of plants. [WA-50; CBE No. 11]						
	SUB CODE:	06/ SUB	M DATE:	19Jun 65/	ORIG REF:	018/ OTH RE	F: 006/
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MEL'NIKOV, N.N.; KRAFT, V.A.

Herbicides and plant regulators. Part 35: Synthesis of some triphenylphenoxyalkylphosphonium salts. Zhur.ob.khim. 30 no.6:1918-1921 Je '60. (MIRA 13:6)

1. Institut fiziologii rasteniy Akademii nauk SSSR. (Phosphonium compounds) (Herbicides)

RAKITIN, Yu.V.; BOKAREV, K.S.; KRAFT, V.A.; RAKITINA, Z.G.; GEYDEN, T.M. GURVICH, S.M.

New defoliants and desiccants for cotton. Fiziol. rat. 8 (MIRA 14:11) no.4:506-511 161.

1. Timiriazev Instance of Sciences, Moscow. (Cottor) (Defoliation) 1. Timiriazev Institute of Plant Physiology, U.S.S.R. Academy

CIA-RDP86-00513R000826010011-2" APPROVED FOR RELEASE: 06/19/2000

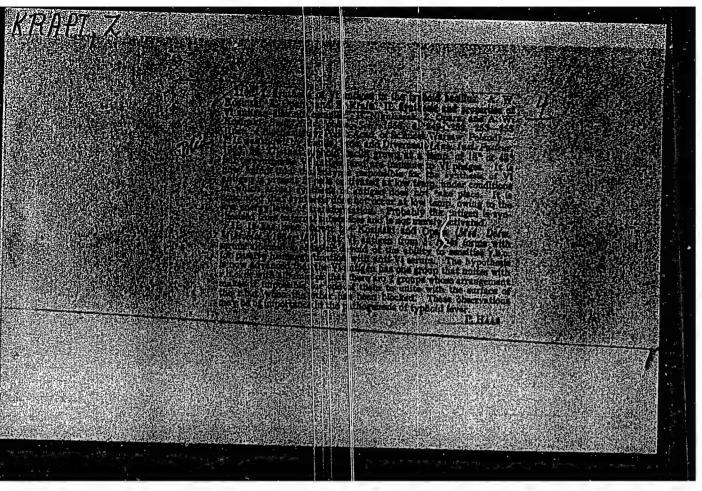
BOKAREV, K.S.; KRAFT, V.A.; KAPELYUSHNIKOVA, L.M.

Synthesis of bis-alkyl xanthogen trisulfides. Izv. AN SSSR Ser. khim. no.12:2175-2182 D '64 (MIRA 18:1)

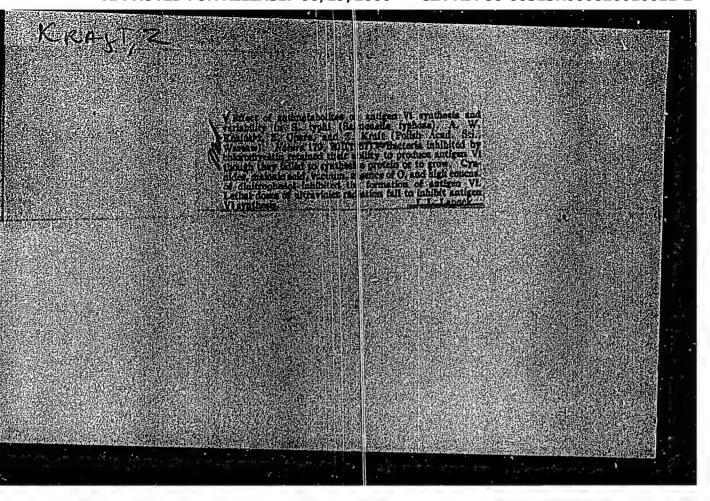
1. Institut fiziologii rasteniy imeni K.A. Timiryazeva AN SSSR.

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KRAFTI, Georgi, inzh.

Methods of projecting a system for irrigation farming. Khidrotekh i melior 7 no.6:188-190 '62.

KRAFTMAKHER, A.YA.

Catogory : USSR/Gonoral Problems - Problems of Touching

A-i

Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 5541

1 Kraftmakhor, A.Ya. Author

: Dotormination of the Velocity of a Bullet with the Aid of Tible

Inductive Transducers and a Cathodo Ray Oscillograph.

Orig Pub : Uch. za p. Yolabukhak. pod. in-ta, 1956, 1, 73-84.

Abstract : Description of four laboratory projects.

Card : 1/1

KRAFTMAKHIRYA A.

APPROVED FOR RELEASE: 06/19/2000
AUTHOR: Kraftmakhar Vo. 4

CIA-RDP86-00513R000826010011-

Kraftmakher, Ya.A.

115-5-33/44

TITLE:

Viscosimeter with Induction Indicators (Viskozimetr s induktivnymi datchikami)

PERIODICAL:

"Izmeritel'naya Tekhnika", No 5, Sep-Oct 1957, pp 78-79 (USSR)

ABSTRACT:

The article presents a suggestion for viscosimeter design with a falling solid ball, used for viscosity measurements in non-transparent fluids or in fluids under high pressure, in a wide temperature range, where the presently practiced Stoke's method (with falling ball in transparent fluids) is impracticable. The proposed viscosimeter comprises two series-connected inductive indicators and two condensers, which form the oscillating circuit of a tube generator. When the metal ball passes the inductive indicators, electric impulses are generated in a load resistance which is inserted in the anode circuit of the oscillator. The anode current is measured by a milliamperemeter. For the case of high speed of the ball, it is suggested to utilize an electronic oscillograph (as is done in the case illustrated byacircuit diagram in the article). It is stated that in this case the described viscosimeter is used, in connection with the oscillograph "30-7", the impulse amplitude would be not less than 10 volt.

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resimeter with Induction Indicators

115-5-33/44

The suggested viscosimeter design is claimed to have considerable advantages as compared with viscosimeters utilizing the induction method or the pulsation method. The inductive indicators under consideration are recommended for work with conventional viscosimeters. The article contains 1 circuit diagram and 3 references.

AVAILABLE:

Library of Congress

Card 2/2

CIA-RDP86-00513R000826010011-2" APPROVED FOR RELEASE: 06/19/2000

AUTHORS:

Kraftmakher, Ya. A., Lyulichev, A. N.,

SOV/32-24-7-51/65

Shakhtin, D. M.

TITLE:

The Investigation of the Operation of Laboratory Mixers by Means of Magnetic Indicators (Izucheniye raboty laboratornykh smesi-

teley pri pomoshchi magnitnykh indikatorov)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 7,

pp. 893 - 895 (USSR)

ABSTRACT:

The apparatus constructed is based on the measurement of the magnetic conductivity of the samples in the low-frequency

magnetic field. The instrument measuring the magnetic

susceptibility was constructed by Ya.A. Kraftmakher. The measuring unit is an H-shaped armature on which three induction coils are arranged. The sample to be investigated is attached in such a way to the measuring unit that the magnetic flux passes through it; thus the inductive voltage in one of the coils is changed and the voltage of the measuring unit serves as a standard for the magnetic susceptibility of the sample. From the schematic representation of the apparatus given may be seen that a lowfrequency generator, the measuring unit, a low- frequency amplifier, a detector, a lamp voltmeter as well as a visual in-

Card 1/2

The Investigation of the Operation of Laboratory Mixers by Means of Magnetic Indicators

SOV/32-24-7-5 1/65

dicator and a supply pack are assembled. The instrument has six measuring ranges of from 10-4 to 10-1 units of magnetic susceptibility in the CGSM system: the degree of mixing is determined by the measuring of the concentration of the magnetic powder in the samples taken from different places. The concentration of the magnetic powder is measured according to the magnetic susceptibility of the specimens pressed from the samples to be investigated. Granular sizes of quartzite of up to 0,5mm were used in the experiments; iron powder of 2,5% Ca(OH)₂, 0,5% sulfite alcohol vinasse, 8% water and 1,5% iron powder served as indicator. The results obtained were obtained from the mean value of the magnetic susceptibility and an equation; a diagram is given. There are 3 figures.

ASSOCIATION:

Vsesoyuznyy nauchno-issledovatel'skiy institut ogneuporov (All-Union Scientific Research Institute For Refractories)

Card 2/2

Two laboratory operations in electronics. Izv. vys. ucheb. zav.; fis. no.4:95-97 '59. (MIRA 13:3) 1. Yelabuzhskiy gosudarstvennyy universitet. (Electrons)

Automatic regulation of adiabatic processes in calorimetric measurements. PMTF no.3:194-197 S-0'60. (MIRA 14:7)
(Calorimetry)
(Automatic control)

KRAFTMAKHER, Ya.A.

Laboratory work to determine electron charge. Izv.vys.ucheb.zav.; fiz. no.2:138-142 '61. (MIRA 14:7)

1. Moskovskiy pedagogicheskiy institut imeni V.I.Lenina. (Electrons)

ASTROV, D.N.; KRAFTMAKHER, Ya.A.

Simple circuit for operating with capacitance pickups. Prib. i tekh. eksp. 6 no.2:180 Mr-Ap '61. (MIRA 14:9)

5/139/62/000/001/031/0<mark>32</mark> E032/E114

AUTHOR:

Kraftmakher, Ya.A.

TITLE:

On the determination of the electrodynamic constant

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy.

Fizika, no.1, 1962, 175-176

TEXT: It is pointed out that in a teaching laboratory the clectrodynamic constant is usually determined by periodically charging and discharging a capacitor through a tangent galvanometer. [Abstractor's note: The electrodynamic constant referred to here is the ratio of the electromagnetic to the electrostatic units of charge.] When the sensitivity of the galvanometer is small, a large current must be passed through it (several hundred milliamps) and the charge-discharge key does not operate satisfactorily. In order to obviate this difficulty the author puts forward the method illustrated by Fig.1. This circuit includes an additional micrometer and a key K2. When the key is in the left-hand position the micrometer measures the discharge current which is proportional to C and the voltage Card 1/3

On the determination of the ...

S/139/62/000/001/031/032 E032/E114

across the condenser. When the key is in the right-hand side position the micrometer records a known fraction of the current passing through the tangent galvanometer. The resistor R is chosen so that the current passing through the micrometer is the same for both positions of the key K2. The resistors R1 and R2 are chosen so as to produce a suitable deflection in the tangent galvanometer. The electrodynamic constant is then equal

$$\frac{2\pi n \text{ CUN}}{r \text{ H}_0 \text{ tan } \varphi} \frac{R_1 + R_2 + R_0}{R_1}$$

where: C is the capacitance; U is the voltage of the battery charging the capacitor; N is the frequency of K_1 ; H_0 is the horizontal component of the earth's magnetic field; n is the number of turns on the tangent galvanometer; R is the resistance of the coil of the tangent galvanometer; ϕ is the deflection of the galvanometer with K_2 in the right-hand position; and R_0 is the internal resistance of the micrometer.

On the determination of the ... S/139/62/000/001/031/032 E032/E114

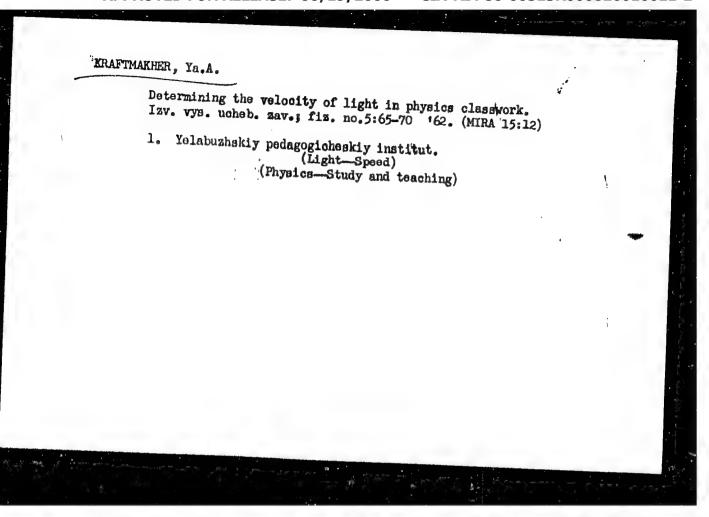
The key K1 is in the form of a polarised relay $P\Pi$ -4 (RP-4) run off the AC mains. With this method the electrodynamic can be determined to within 1%.

ASSOCIATION: Yelabuzhskiy pedinstitut

(Elabuga Pedagogical Institute)

SUBMITTED: December 23, 1960

Card 3/4



KRAFTMAKHER, Ya.A. (Novosibirsk)

The modulation method for heat capacity measurements. PMTF no.5:176-180 S-0 162. (MIRA 16:1) (Heat capacity-Measurement)

39986

26 2531

3/181/62/004/008/035/041 B108/B102

AUTHORS:

araftmakher, Ya. A., and Strelkov, P. G.

TITLE:

Formation energy and concentration of vacancies in tungsten

PERIODICAL: Fizika tverdogo tela, v. 4, no. 8, 1962, 2271 - 2274

TEXT: The formation energy and concentration of vacancies in tungsten was determined from the specific heat whose temperature dependence was measured from 2000 to 3600 K. Temperature of the specimens was modulated on a frequency of some 120 cps by a current (constant + variable components) passing through the specimens. The rise in specific heat at high temperatures was measured as $\Delta C = (U^2/RT^2)A \exp(-U/RT)$, where U is the formation

energy of the vacancies, A exp(-U/RT) is the vacancy concentration at temperature T. Measurements and evaluation of this formula yielded for tungsten a vacancy formation energy of 72.5 kcal/g-atom. The vacancy concentration is c= 670 exp(-72500/RT), which at 3600 K is 2.7%. There are 2 figures.

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"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826010011-2

Formation energy and ...

S/181/62/004/008/035/041 B108/B102

ASSOCIATION:

Institut teplofiziki Sibirskogo otdeleniya AN SSSR Novosibirsk (Institute of Heat Physics of the Siberian Department AS USSR, Novosibirsk)

SUBMITTED:

April 26, 1962

Card 2/2

KRAFTMAKHER YA. A ADD Nr. 977-8 27 May

VACANCY FORMATION IN NIOBIUM (USSR)

Kraftmakher, Ya. A. Fizika tverdogo tela, v. 5, no. 3, Mar 1963, 950-951. S/181/63/005/003/039/046

To determine the energy of vacancy formation and the vacancy concentration in Nb, the Institute of Thermophysics, Siberian Department of the Academy of Sciences USSR, has measured the specific heat of Nb in the 1300-2700°K range. Vacuum-degassed Nb specimens, 0.11 and 0.13 mm in diameter and 40-70 mm long, were "trained" at 2000°K at a residual pressure of 2 x 10-6mm Hg. Results of the measurements show the energy of vacancy formation in Nb to be reaches 1.2%, while the additional specific heat associated with vacancy formation at the melting temperature is 0.57 kcal/g-atom. [MS]

Card 1/1

KFAFTMAKHER, YA. A. (Novosibirsk)

"measuring the specific heat of tungsten at temperatures up to 30000, molvbdenum, up to 22000, and niobium, up to 21000."

Report presented at the Seminar on the Problems of research on themsephysical properties of substances at high temperatures, Novosibirsk, 9-10 April 1963.

L 17041-63 EPR/EWA(h)/EMP(r)/EPF(c)/EWT(1)/ EPF(n)-2/EWP(q)/EWT(m)/BDS/ES(a)-2 AFFTC/ASD/SSD 8/207/63/000/002/020/025 Ps-4/Pr-4/Pi-4/Pt-4/Pu-4 Kraftmakher, Ya. A. (Novosibirek) AUTHOR: Heat capacity of tantalum in the 1200-29000K temperature interval TITIE: PERIODICAL: Zhurnal prikladnov mekhaniki 1 tekhnicheskov fiziki, no. 2, 1963, 158-160 TEXT: Using the modulation method (Ref. 1: Ya. A. Braftmakher, PMTF, 1962, No. 5) the author determined the heat capacity of Ta in the 1200-2900°K temperature interval. Between 1200 and 2000°K the heat capacity follows the equation Cp = 5.82 + 0.00068 T cal/g-at. degree (1) at higher temperatures there is an additional increase in leat capacity due to the creation of vacanoies, and it agrees with the equation $\Delta C_p = \frac{u^2}{RT^2} A \exp \frac{-u}{RT}$ (2) Card 1/2